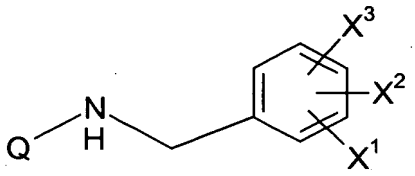
## CLAIMS

1. A pharmaceutical composition for the treatment of anxiety or depression in a mammal, comprising: (a) a compound that exhibits activity, respectively, as an anxiolytic agent or an antidepressant, or a pharmaceutically acceptable salt thereof; (b) a CNS-penetrant NK-1 receptor antagonist or pharmaceutically acceptable salt thereof; and (c) a pharmaceutically acceptable carrier; wherein the active agents "a" and "b" above are present in amounts that render the composition effective in treating, respectively, anxiety or depression.

2. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula I, as defined below, and their pharmaceutically acceptable salts:

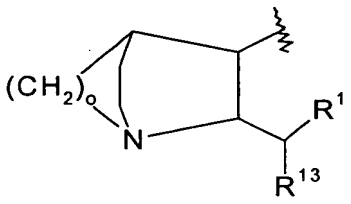


I

wherein $X^1$ is hydrogen, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms or ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms;

$X^2$ and $X^3$ are independently selected from hydrogen, halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, hydroxy, phenyl, cyano, amino, ($C_1$-$C_6$)-alkylamino, di-($C_1$-$C_6$)alkylamino, -C(=O)-NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$) alkyl-C(=O)-NH-($C_1$-$C_6$) alkyl, hydroxy($C_1$-$C_4$)alkyl, ($C_1$-$C_4$)alkoxy($C_1$-$C_4$)alkyl, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and

Q is a group of the formula



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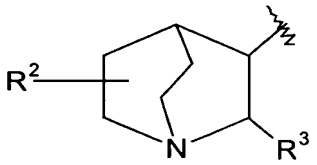
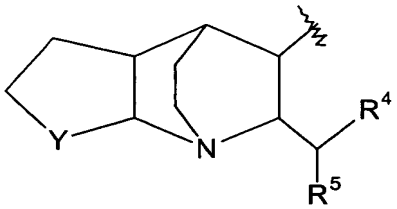


III



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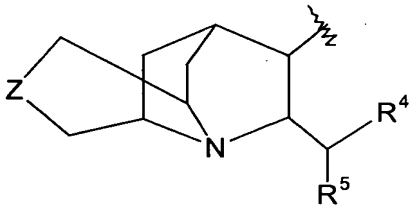
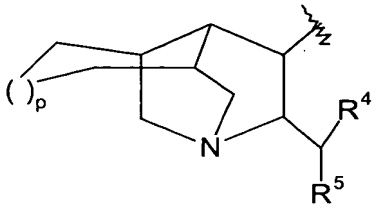
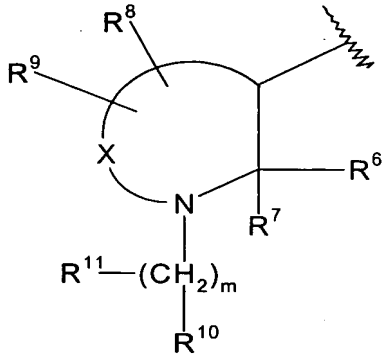


V

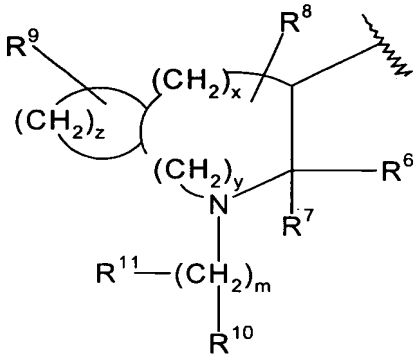


VI



VII

OR



VIII

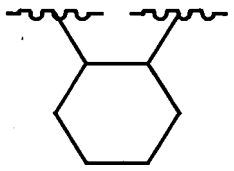
wherein $R^1$ is a radical selected from furyl, thienyl, pyridyl, indolyl, biphenyl and phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, carboxy, benzyloxycarbonyl and $(C_1-C_3)$ alkoxy-carbonyl;

$R^{13}$ is selected from $(C_3-C_4)$ branched alkyl, $(C_5-C_6)$ branched alkenyl, $(C_5-C_7)$ cycloalkyl, and the radicals named in the definition of $R^1$;

$R^2$ is hydrogen or $(C_1-C_6)$ alkyl;

$R^3$ is phenyl, biphenyl, naphthyl, pyridyl, benzhydryl, thienyl or furyl, and $R^3$ may optionally be substituted with from one to three substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

Y is $(CH_2)_l$ wherein l is an integer from one to three, or Y is a group of the formula



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Z is oxygen, sulfur, amino, $(C_1-C_3)$alkylamino or $(CH_2)_n$ wherein n is zero, one or two;

o is two or three;

p is zero or one;

$R^4$ is furyl, thienyl, pyridyl, indolyl, biphenyl, or phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, carboxy, $(C_1-C_3)$ alkoxy-carbonyl and benzyloxycarbonyl;

$R^5$ is thienyl, biphenyl or phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

X is $(CH_2)_q$ wherein q is an integer from 1 to 6, and wherein any one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^8$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^9$;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$ may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^{11}$;

$R^6$ is a radical selected from hydrogen, $(C_1-C_6)$ straight or branched alkyl, $(C_3-C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl,

furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl ($C_2$-$C_6$) alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl ($C_2$-$C_6$) alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$) alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl,($C_1$-$C_6$)-alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl, -NHC(=O)H and -NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^7$ is hydrogen, phenyl or ($C_1$-$C_6$)alkyl;

or $R^6$ and $R^7$, together with the carbon to which they are attached, form a saturated carbocyclic ring having from 3 to 7 carbon atoms wherein one of said carbon atoms may optionally be replaced by oxygen, nitrogen or sulfur;

$R^8$ and $R^9$ are each independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), nitrile, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkylamino, di-($C_1$-$C_6$)alkylamino, ($C_1$-$C_6$)alkoxy, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$)alkyl-O-C(=O)-($C_1$-$C_6$)alkyl,-($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-, and the radicals set forth in the definition of $R^6$;

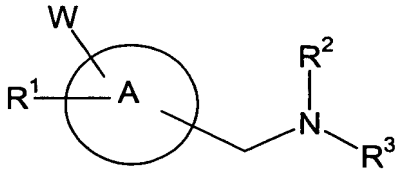
$R^{10}$ is $NHCR^{12}$, $NHCH_2R^{12}$, $NHSO_2R^{12}$ or one of the radicals set forth in any of the definitions of $R^6$, $R^8$ and $R^9$;

$R^{11}$ is oximino (=NOH) or one of the radicals set forth in any of the definitions of $R^6$, $R^8$ and $R^9$; and

$R^{12}$ is ($C_1$-$C_6$)alkyl, hydrogen, phenyl($C_1$-$C_6$)alkyl or phenyl optionally substituted with ($C_1$-$C_6$) alkyl; and

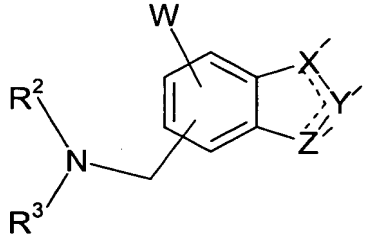
with the proviso that (a) when m is 0, $R^{11}$ is absent, (b) neither $R^8$, $R^9$, $R^{10}$ nor $R^{11}$ can form, together with the carbon to which it is attached, a ring with $R^7$, (c) when Q is a group of the formula VIII, $R^8$ and $R^9$ cannot be attached to the same carbon atom, and (d) when $R^8$ and $R^9$ are attached to the same carbon atom, then either each of $R^8$ and $R^9$ is independently selected from hydrogen, fluoro, ($C_1$-$C_6$) alkyl, hydroxy-($C_1$-$C_6$)alkyl and ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, or $R^8$ and $R^9$, together with the carbon to which they are attached, form a ($C_3$-$C_6$) saturated carbocyclic ring that forms a spiro compound with the nitrogen-containing ring to which they are attached.

3. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula IXa or IXb, as defined below, and their pharmaceutically acceptable salts:



IXa

or



IXb

and their pharmaceutically acceptable salts, wherein A is a ring system selected from phenyl, naphthyl, thienyl, quinolinyl and indolinyl, and wherein the side chain containing $NR^2R^3$ is attached to a carbon atom of ring system A;

W is hydrogen, $(C_1$-$C_6)$alkyl optionally substituted with from one to three fluorine atoms, -$S(O)_v$-$(C_1$-$C_6)$ alkyl wherein v is zero, one or two, halo, benzyloxy or $(C_1$-$C_6)$alkoxy optionally substituted with from one to three fluorine atoms;

$R^1$ is a 4, 5 or 6 membered heterocyclic ring containing from one to three heteroatoms selected from oxygen, nitrogen and sulfur (e.g., thiazolyl, azetidinyl, pyrrolyl, pyrazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, isothiazolyl, imidazolyl, isoxazolyl, oxazolyl, pyridyl, pyrimidinyl, pyrazolyl or thiophenyl), wherein said heterocyclic ring may contain from zero to three double bonds and may optionally be substituted with one or more substituents, preferably one or two substituents, independently selected from $(C_1$-$C_6)$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1$-$C_6)$ alkoxy optionally substituted with from one to three fluorine atoms;

the dotted lines in formula Ib indicate that one of the X'-Y' and Y'-Z' bonds may optionally be a double bond;

X' is selected from =CH-, $-CH_2$-, -O-, -S-, -SO-, $-SO_2$-, $-N(R^4)$-, -NH-, =N-, -CH[$(C_1$-$C_6)$alkyl]-, =C[$(C_1$-$C_6)$alkyl]-, $-CH(C_6H_5)$- and $=C(C_6H_5)$-;

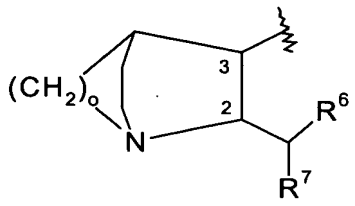
Y' is selected from C=O, $C=NR^4$, C=S, =CH-, $-CH_2$-, =C[$(C_1$-$C_6)$alkyl]-, -CH[$(C_1$-$C_6)$alkyl]-, $=C(C_6H_5)$-, $-CH(C_6H_5)$-, =N-, -NH-, $-N(R^4)$-, =C(halo)-, $=C(OR^4)$-, $=C(SR^4)$-, $=C(NR^4)$-, -O-, $=C(CF_3)$-, $=C(CH_2C_6H_5)$-, -S- and $SO_2$, wherein the phenyl moieties of said $=C(C_6H_5)$- and $-CH(C_6H_5)$- may optionally be substituted with from one to three substituents independently selected from trifluoromethyl and halo, and wherein the alkyl moieties of said =[$(C_1$-$C_6)$alkyl]- and -CH[$C_1$-$C_6)$alkyl]- may optionally be substituted with from one to three fluorine atoms;

Z' is selected from =CH-, $-CH_2$-, =N-, -NH-, -S-, $-N(R^4)$-, $=C(C_6H_5)$-, $-CH(C_6H_5)$-, =C[$(C_1$-$C_6)$ alkyl]- and -CH[$(C_1$-$C_6)$alkyl]-;

or X', Y' and Z', together with the two carbon atoms shared between the benzo ring and the X'Y'Z' ring, form a fused pyridine or pyrimidine ring;

$R^2$ is hydrogen or $-CO_2(C_1-C_{10})$alkyl;

$R^3$ is selected from



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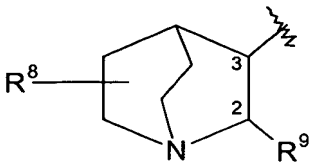
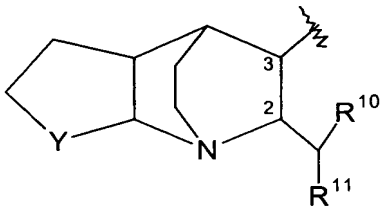
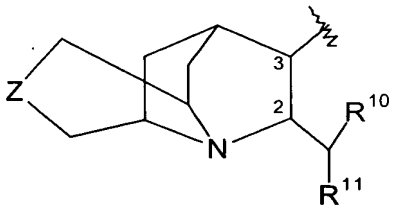


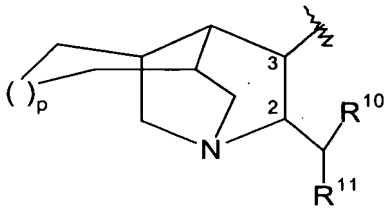
XI



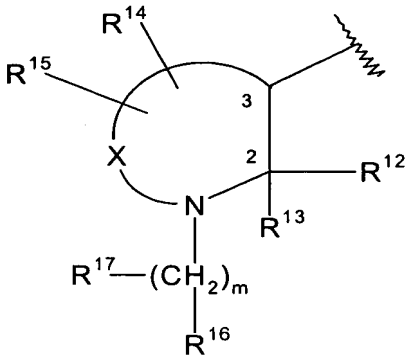
XII



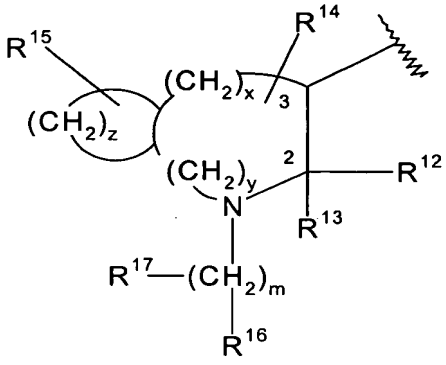
XIII



XIV

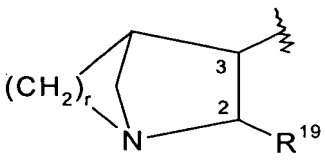


XV



XVI

and



XVII

wherein $R^6$ and $R^{10}$ are independently selected from furyl, thienyl, pyridyl, indolyl, biphenyl and phenyl, wherein said phenyl may optionally be substituted with one or two substituents independently selected from halo, $(C_1\text{-}C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1\text{-}C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, carboxy, benzyloxycarbonyl and $(C_1\text{-}C_3)$ alkoxy-carbonyl;

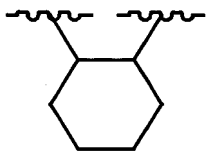
$R^4$ is $(C_1\text{-}C_6)$ alkyl or phenyl;

$R^7$ is selected from $(C_3\text{-}C_4)$ branched alkyl, $(C_5\text{-}C_6)$ branched alkenyl, $(C_5\text{-}C_7)$ cycloalkyl, and the radicals named in the definition of $R^6$;

$R^8$ is hydrogen or $(C_1\text{-}C_6)$ alkyl;

$R^9$ and $R^{19}$ are independently selected from phenyl, biphenyl, naphthyl, pyridyl, benzhydryl, thienyl and furyl, and $R^9$ and $R^{19}$ may optionally be substituted with from one to three substituents independently selected from halo, $(C_1\text{-}C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1\text{-}C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

Y is $(CH_2)_l$ wherein l is an integer from one to three, or Y is a group of the formula



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;

Z is oxygen, sulfur, amino, $(C_1\text{-}C_3)$alkylamino or $(CH_2)_n$ wherein n is zero, one or two;

x is zero, one or two;

y is zero, one or two;

z is three, four or five;

o is two or three;

p is zero or one;

r is one, two or three;

the ring containing $(CH_2)_z$ may contain from zero to three double bonds, and one of the carbon atoms of $(CH_2)_z$ may optionally be replaced by oxygen, sulfur or nitrogen;

$R^{11}$ is thienyl, biphenyl or phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1\text{-}C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1\text{-}C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

X is $(CH_2)_q$ wherein q is an integer from 1 to 6, and wherein any one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^{14}$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^{15}$;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$, wherein both carbon atoms of such bond are bonded to each other and to another carbon atom of the $(CH_2)_m$ chain, may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^{17}$;

$R^{12}$ is a radical selected from hydrogen, $(C_1-C_6)$ straight or branched alkyl, $(C_3-C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl-$(C_2-C_6)$ alkyl, benzhydryl and benzyl, wherein the point of attachment on $R^{12}$ is a carbon atom unless $R^{12}$ is hydrogen, and wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl-$(C_2-C_6)$ alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkoxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$-alkylamino, $(C_1-C_6)$alkyl-O-C(=O)-, $(C_1-C_6)$alkyl-O-C(=O)-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkyl-C(=O)-O-, $(C_1-C_6)$alkyl-C(=O)-$(C_1-C_6)$alkyl-O-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-, di-$(C_1-C_6)$alkylamino, -C(=O)-NH-$(C_1-C_6)$alkyl, $(C_1-C_6)$-alkyl-C(=O)-NH-$(C_1-C_6)$alkyl, -NHC(=O)H and –NHC(=O)-$(C_1-C_6)$alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^{13}$ is hydrogen, phenyl or $(C_1-C_6)$alkyl;

or $R^{12}$ and $R^{13}$, together with the carbon to which they are attached, form a saturated carbocyclic ring having from 3 to 7 carbon atoms wherein one of said carbon atoms that is neither the point of attachment of the spiro ring nor adjacent to such point of attachment may optionally be replaced by oxygen, nitrogen or sulfur;

$R^{14}$ and $R^{15}$ are each independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), cyano, hydroxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkoxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkylamino, di-$(C_1-C_6)$alkylamino, $(C_1-C_6)$alkoxy, -C(=O)-OH, $(C_1-C_6)$alkyl-O-C(=O)-, $(C_1-C_6)$alkyl-O-C(=O)-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkyl-C(=O)-O-, $(C_1-C_6)$alkyl-C-$(C_1-C_6)$alkyl-O-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-C(=O)-$(C_1-C_6)$alkyl-, and the radicals set forth in the definition of $R^{12}$;

$R^{16}$ is $NHC(=O)R^{18}$, $NHCH_2R^{18}$, $SO_2R^{18}$, $CO_2H$ or one of the radicals set forth in any of the definitions of $R^{12}$, $R^{14}$ and $R^{15}$;

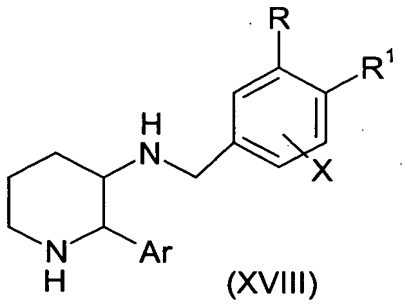
$R^{17}$ is oximino (=NOH) or one of the radicals set forth in any of the definitions of $R^{12}$, $R^{14}$ and $R^{15}$; and

$R^{18}$ is $(C_1-C_6)$alkyl, hydrogen, phenyl or phenyl $(C_1-C_6)$alkyl;

with the proviso that (a) when m is 0, one of $R^{16}$ and $R^{17}$ is absent and the other is hydrogen, (b) when $R^3$ is a group of the formula XVI, $R^{14}$ and $R^{15}$ cannot be attached to the same

carbon atom, (c) when $R^{14}$ and $R^{15}$ are attached to the same carbon atom, then either each of $R^{14}$ and $R^{15}$ is independently selected from hydrogen, fluoro, $(C_1\text{-}C_6)$alkyl, hydroxy-$(C_1\text{-}C_6)$alkyl and $(C_1\text{-}C_6)$alkoxy-$(C_1\text{-}C_6)$alkyl, or $R^{14}$ and $R^{15}$, together with the carbon to which they are attached, form a $(C_3\text{-}C_6)$ saturated carbocyclic ring that forms a spiro compound with the nitrogen-containing ring to which they are attached; (d) $R^{12}$ and $R^{13}$ can not both be hydrogen, and (e) when $R^{14}$ or $R^{15}$ is attached to a carbon atom of X or $(CH_2)_y$ that is adjacent to the ring nitrogen, then $R^{14}$ or $R^{15}$, respectively, must be a substituent wherein the point of attachment is a carbon atom.

4. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XVIII, as depicted and defined below, and their pharmaceutically acceptable salts:



(XVIII)

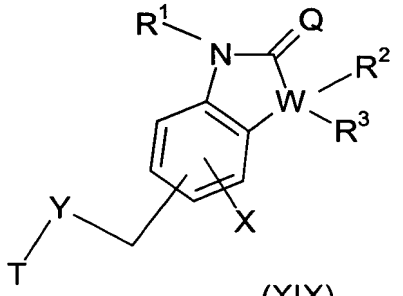
wherein R is halo $(C_1\text{-}C_8)$alkyl, halo $(C_2\text{-}C_8)$alkenyl, halo $(C_2\text{-}C_8)$alkynyl or halo $(C_1\text{-}C_8)$alkyl substituted by hydroxy or $(C_1\text{-}C_8)$alkoxy; $R^1$ is hydrogen, halo or $(C_1\text{-}C_6)$alkoxy; or

R and $R^1$, together with the two carbon atoms shared between the benzene ring and the R and $R^1$, complete a fused $(C_4\text{-}C_6)$cycloalkyl wherein one carbon atom is optionally replaced by oxygen and wherein one or two of the carbon atoms are optionally substituted by up to five subtituents selected from halo, $(C_1\text{-}C_6)$alkyl and halo $(C_1\text{-}C_6)$alkyl;

X is $(C_1\text{-}C_6)$alkoxy, halo $(C_1\text{-}C_6)$alkoxy, phenoxy or halo; and

Ar is phenyl optionally substituents by halo.

5. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XIX, as depicted and defined below, and their pharmaceutically acceptable salts:



(XIX)

wherein

W is methylene, ethylene, propylene, vinylene, $-CH_2-O-$,$-O-CH_2-$, $-CH_2-S-$ or $-S-CH_2-$;

$R^1$, $R^2$ and $R^3$ are independently hydrogen, $(C_1-C_3)$ alkyl, $(C_1-C_3)$ alkoxy or halo $(C_1-C_3)$ alkyl, provided that when W is methylene, both $R^2$ and $R^3$ are not hydrogen;

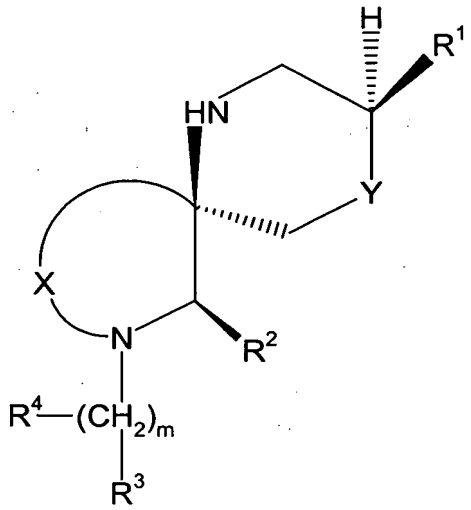
X is halo, $(C_1-C_3)$ alkoxy, $(C_1-C_3)$ alkoxy or $(C_1-C_3)$ alkenyl;

Y is imino or oxy;

Q is oxygen or sulfur; and

T is (2S,3S)-2-diphenylmethylquinuclidin-3-yl,(2S,3S)-2-phenylpiperdin-3-yl or (2S,3S)-2-diphenylmethyl-1-azanorbornan-3-yl.

6. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XX, as depicted and defined below, and their pharmaceutically acceptable salts:

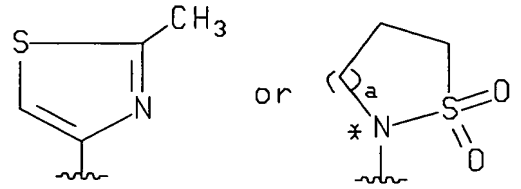



XX

wherein $R^1$ is phenyl optionally substituted with one or more substituents, preferably with from one to three substituents, independently selected from hydrogen, halo, nitro, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, hydroxy, phenyl, cyano, amino, $(C_1-C_6)$-alkylamino, di-$(C_1-C_6)$alkylamino, $-C(=O)-NH-(C_1-C_6)$alkyl, $(C_1-C_6)$alkyl-$C(=O)-NH-(C_1-C_6)$ alkyl, hydroxy$(C_1-C_4)$alkyl,$-NHC(=O)H$, $-NHC(=O)-(C_1-C_6)$ alkyl, $(C_1-C_4)$alkoxy$(C_1-C_4)$alkyl, $-S(O)_v-(C_1-C_{10})$-alkyl wherein v is zero, one or two, $-S(O)_v$-aryl wherein v is zero, one or two, -O-aryl, $-SO_2NR^4R^5$ wherein each of $R^4$ and $R^5$ is, independently, $(C_1-C_6)$alkyl, or $R^4$ and $R^5$, together with the nitrogen to which they are attached, form a saturated ring containing one nitrogen and from 3 to 6 carbons, $(SO_2-(C_1-C_{10})$alkyl) $((C_1-C_{10})$alkyl)N wherein one or both of the alkyl moieties may optionally be substituted with from one to three fluorine atoms, $-N(SO_2-(C_1-C_{10})$alkyl$)_2$ and $(SO_2$-aryl) $((C_1-C_{10})$alkyl)N; and wherein the aryl moieties of said $-S(O)_v$-aryl, -O-aryl and $(SO_2$-aryl) $((C_1-C_{10})$alkyl)N are independently selected from phenyl and benzyl and may

optionally be substituted with from one to three substituents independently selected from ($C_1$-$C_4$)alkyl, ($C_1$-$C_4$)alkoxy and halo;

or $R^1$ is phenyl substituted with a group having the formula



wherein a is 0, 1 or 2 and the asterisk represents a position meta to the point of attachment of $R^1$;

$R^2$ is selected from ($C_1$-$C_6$) straight or branched alkyl, ($C_3$-$C_7$) cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl ($C_2$-$C_6$) alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl ($C_2$-$C_6$) alkyl and benzhydryl may optionally be substituted with one or more substituents, preferably with from one to three substituents, independently selected from halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$) alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C-($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$, wherein both carbon atoms of such bond are bonded to each other and to another carbon atom in the $(CH_2)_m$ chain, may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^4$;

$R^3$ is selected from $NHC(=O)R^8$, $NHCH_2R^8$, $SO_2R^8$, $AR^5$, $CO_2H$ and the radicals set forth in the definitions of $R^2$, $R^6$ and $R^7$;

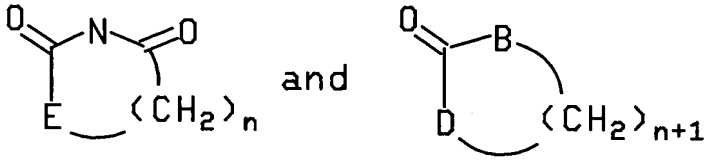
A is $CH_2$, nitrogen, oxygen, sulfur or carbonyl;

$R^8$ is ($C_1$-$C_6$)alkyl, hydrogen, phenyl or phenyl ($C_1$-$C_6$)alkyl;

$R^4$ is selected from oximino (=NOH) and the radicals set forth in the definitions of $R^2$, $R^6$ and $R^7$;

$R^5$ is a monocyclic or bicyclic heterocycle selected from the group consisting of pyrimidinyl, benzoxazolyl, 2,3-dihydro-3-oxobenzisosulfonazol-2-yl, morpholin-1-yl,

thiomorpholin-1-yl, benzofuranyl, benzothienyl, indolyl, isoindolyl, isoquinolinyl, furyl, pyridyl, isothiazolyl, oxazolyl, triazolyl, tetrazolyl, quinolyl, thiazolyl, thienyl, and groups of the formulae



wherein B and D are selected from carbon, oxygen and nitrogen, and at least one of B and D is other than carbon; E is carbon or nitrogen; n is an integer from 1 to 5; any one of the carbon atoms of said $(CH_2)_n$ and $(CH_2)_{n+1}$ may be optionally substituted with $(C_1$-$C_6)$alkyl or $(C_2$-$C_6)$ spiroalkyl; and either any one pair of the carbon atoms of said $(CH_2)_n$ and $(CH_2)_{n+1}$ may be bridged by a one or two carbon atom linkage, or any one pair of adjacent carbon atoms of said $(CH_2)_n$ and $(CH_2)_{n+1}$ may form, together with from one to three carbon atoms that are not members of the carbonyl containing ring, a $(C_3$-$C_5)$ fused carbocyclic ring;

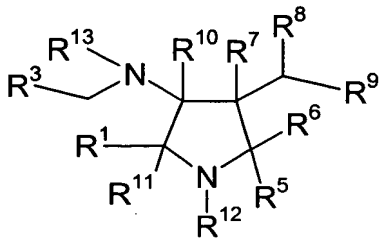
X is $(CH_2)_q$ wherein q is two or three and wherein one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^6$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^7$;

$R^6$ and $R^7$ are independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), cyano, hydroxy-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkoxy-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkylamino, di-$(C_1$-$C_6)$alkylamino, $(C_1$-$C_6)$alkoxy, -C(=O)-OH, $(C_1$-$C_6)$alkyl-O-C(=O)-, $(C_1$-$C_6)$alkyl-O-C(=O)-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)-O-, $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl-O-, $(C_1$-$C_6)$alkyl-C-, $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl- and the radicals set forth in the definition of $R^2$; and

Y is $(CH_2)_z$ wherein z is zero or one;

with the proviso that: (a) when A is -$(CH_2)$- or carbonyl, $R^5$ cannot be furyl, pyridyl, isothiazolyl, oxazolyl, triazolyl, tetrazolyl, quinolyl, thiazolyl or thienyl; (b) when m is zero, one of $R^3$ and $R^4$ is absent and the other is hydrogen; (c) when $R^6$ or $R^7$ is attached to a carbon atom of X that is adjacent to the ring nitrogen, then $R^6$ or $R^7$, respectively, must be a substituent wherein the point of attachment is a carbon atom;

7. A pharmaceutical composition according to claim 1, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XXI, as depicted and defined below, and their pharmaceutically acceptable salts:



XXI

wherein $R^1$ is selected from hydrogen, ($C_1$-$C_6$) straight or branched alkyl, ($C_3$-$C_7$) cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from phenyl, biphenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl ($C_2$-$C_6$) alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl ($C_2$-$C_6$) alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, ($C_1$-$C_6$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_6$) alkoxy, amino, trihaloalkoxy (e.g., trifluoromethoxy), ($C_1$-$C_6$)alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$)alkyl-O-C(=O)- ($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C-, ($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl-, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^3$ is aryl selected from phenyl and naphthyl; heteroaryl selected from indanyl, thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; and cycloalkyl having 3 to 7 carbon atoms wherein one of said carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; wherein each of said aryl and heteroaryl groups may optionally be substituted with one or more substituents, and said ($C_3$-$C_7$) cycloalkyl may optionally be substituted with one or two substituents, each of said substituents being independently selected from halo, nitro, ($C_1$-$C_6$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_6$) alkoxy, amino, phenyl, trihaloalkoxy (e.g., trifluoromethoxy), ($C_1$-$C_6$) alkylamino, -C(=O)-NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)- -C-O-($C_1$-$C_6$)alkyl, -C(=O)H, $-CH_2OR^{13}$, NH($C_1$-$C_6$)alkyl-, -NHC(=O)H, $-NR^{24}$C-($C_1$-$C_6$)alkyl and –NHC(=O)-($C_1$-$C_6$)alkyl;

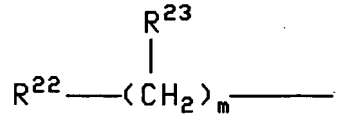
one of $R^5$ and $R^6$ is hydrogen and the other is selected from hydroxymethyl, hydrogen, ($C_1$-$C_3$)alkyl, ($C_1$-$C_8$)acyloxy($C_1$-$C_3$)alkyl, ($C_1$-$C_8$)alkoxymethyl and benzyloxymethyl;

$R^7$ and $R^8$ are independently selected from hydrogen, ($C_1$-$C_3$)alkyl and phenyl;

$R^9$ is selected from methyl, hydroxymethyl, HC(=O)-, $R^{14}R^{15}NCO_2CH_2$-, $R^{16}OCO_2CH_2$-, ($C_1$-$C_4$)alkyl-$CO_2CH_2$-, -$CONR^{17}R^{18}$, $R^{17}R^{18}NCO_2$-, $R^{19}OCO_2$-, $C_6H_5CH_2CO_2CH_2$-, $C_6H_5CO_2CH_2$-, ($C_1$-$C_4$)alkyl-CH(OH)-, $C_6H_5$CH(OH)-, $C_6H_5CH_2$CH(OH)-, $CH_2$halo, $R^{20}SO_2OCH_2$, -$CO_2R^{16}$ and $R^{21}CO_2$-;

$R^{10}$ and $R^{11}$ are independently selected from hydrogen, ($C_1$-$C_3$) alkyl and phenyl;

$R^{12}$ is hydrogen, benzyl or a group of the formula



wherein m is an integer from zero to twelve, and any one of the carbon-carbon single bonds of $(CH_2)_m$ may optionally be replaced by a carbon-carbon double or triple bond, and any

one of the carbon atoms of $(CH_2)_m$ may optionally be substituted with $R^{23}$ (as indicated by the slanted line to $R^{23}$ which intersects the horizontal line to $(CH_2)_m$ in the above figure);

$R^{13}$, $R^{14}$, $R^{15}$, $R^{16}$, $R^{17}$, $R^{18}$, $R^{19}$, $R^{20}$, $R^{21}$ and $R^{24}$ are independently selected from hydrogen, $(C_1$-$C_3)$alkyl and phenyl;

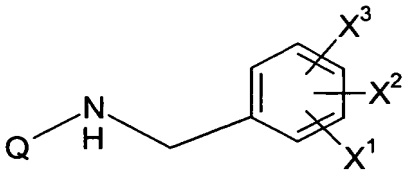
$R^{22}$ and $R^{23}$ are independently selected from hydrogen, hydroxy, halo, amino, carboxy, carboxy$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkylamino, di-$(C_1$-$C_6)$alkylamino, $(C_1$-$C_6)$alkoxy, $(C_1$-$C_6)$-alkyl-O-C(=O)-, $(C_1$-$C_6)$alkyl-O-C(=O)-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)- $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl-O-, $(C_1$-$C_6)$alkyl-C-, $(C_1$-$C_6)$-alkyl-C(=O)-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$ straight or branched alkyl, $(C_3$-$C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from phenyl and naphthyl; heteroaryl selected from indanyl, thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl-$(C_2$-$C_6)$alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl-$(C_2$-$C_6)$alkyl and benzhydryl may optionally be substituted with one or two substituents independently selected from halo, nitro, $(C_1$-$C_6)$alkyl optionally substituted with from one to three fluorine atoms, $(C_1$-$C_6)$alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, amino, $(C_1$-$C_6)$-alkylamino, $(C_1$-$C_6)$alkyl-O-C(=O), $(C_1$-$C_6)$alkyl-O-C(=O)-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)-O-, $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl-O-, $(C_1$-$C_6)$alkyl-C(=O)-, $(C_1$-$C_6)$alkyl-C-$(C_1$-$C_6)$alkyl-, di-$(C_1$-$C_6)$alkylamino, -C(=O)NH-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$-alkyl-C(=O)-NH-$(C_1$-$C_6)$alkyl, -NHC(=O)H and –NHC(=O)-$(C_1$-$C_6)$alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

or $R^9$, together with the carbon to which it is attached, the nitrogen of the pyrrolidine ring, the carbon to which $R^7$ is attached and the carbon to which $R^5$ and $R^6$ are attached form a second pyrrolidine ring; with the proviso that when $R^9$, together with the carbon to which it is attached, the nitrogen of the pyrrolidine ring, the carbon to which $R^7$ is attached and the carbon to which $R^5$ and $R^6$ are attached, form a second pyrrolidine ring (thus forming a bicyclic structure containing a bridgehead nitrogen), either $R^{12}$ is absent or $R^{12}$ is present and the nitrogen of the second pyrrolidine ring is positively charged.

8. A method of treating anxiety or depression in a mammal, comprising administering to said mammal an antianxiety effective amount or an antidepressant effective amount, respectively, of a pharmaceutical composition according to claims 1, 2, 3, 4, 5, 6, or 7.

9. A method of treating anxiety or depression in a mammal, comprising administering to said mammal: (a) a compound that exhibits activity as an anxiolytic antianxiety agent or an antidepressant, or a pharmaceutically acceptable salt thereof; and (b) a CNS-penetrant NK-1 receptor antagonist or pharmaceutically acceptable salt thereof; wherein the active agents "a" and "b" above are present in amounts that render the combination of the two agents effective in treating, respectively, anxiety or depression.

10. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula I, as depicted and defined below, and their pharmaceutically acceptable salts:

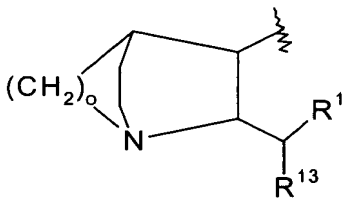


I

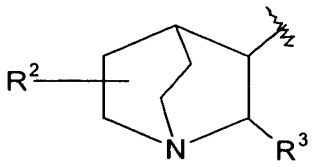
wherein $X^1$ is hydrogen, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms or ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms;

$X^2$ and $X^3$ are independently selected from hydrogen, halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, hydroxy, phenyl, cyano, amino, ($C_1$-$C_6$)-alkylamino, di-($C_1$-$C_6$)alkylamino, -C(=O)-NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$) alkyl-C(=O)-NH-($C_1$-$C_6$) alkyl, hydroxy($C_1$-$C_4$)alkyl, ($C_1$-$C_4$)alkoxy($C_1$-$C_4$)alkyl, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and

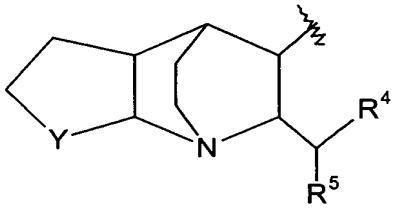
Q is a group of the formula



II



III



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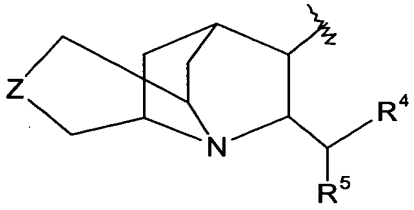

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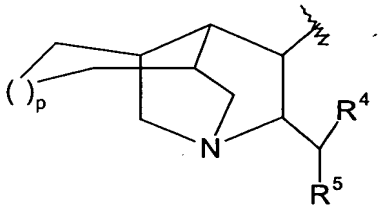
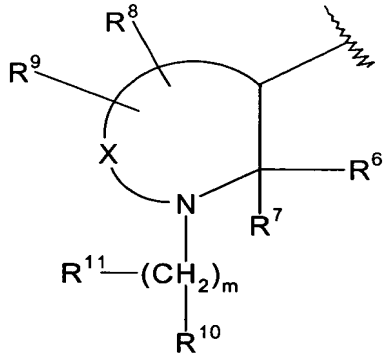
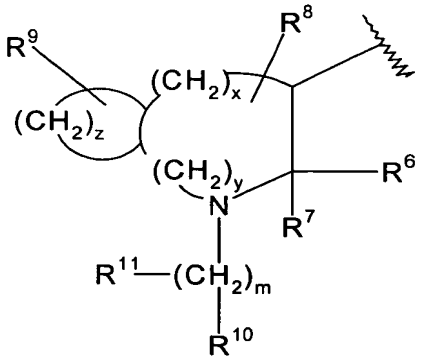


VI



VII

OR



VIII

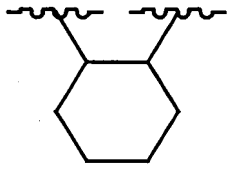
wherein $R^1$ is a radical selected from furyl, thienyl, pyridyl, indolyl, biphenyl and phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, carboxy, benzyloxycarbonyl and $(C_1-C_3)$ alkoxy-carbonyl;

$R^{13}$ is selected from $(C_3-C_4)$ branched alkyl, $(C_5-C_6)$ branched alkenyl, $(C_5-C_7)$ cycloalkyl, and the radicals named in the definition of $R^1$;

$R^2$ is hydrogen or $(C_1-C_6)$ alkyl;

$R^3$ is phenyl, biphenyl, naphthyl, pyridyl, benzhydryl, thienyl or furyl, and $R^3$ may optionally be substituted with from one to three substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

Y is $(CH_2)_l$ wherein l is an integer from one to three, or Y is a group of the formula



(J)

;

Z is oxygen, sulfur, amino, $(C_1-C_3)$alkylamino or $(CH_2)_n$ wherein n is zero, one or two;

o is two or three;

p is zero or one;

$R^4$ is furyl, thienyl, pyridyl, indolyl, biphenyl, or phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, carboxy, $(C_1-C_3)$ alkoxy-carbonyl and benzyloxycarbonyl;

$R^5$ is thienyl, biphenyl or phenyl optionally substituted with one or two substituents independently selected from halo, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms;

X is $(CH_2)_q$ wherein q is an integer from 1 to 6, and wherein any one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^8$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^9$;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$ may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^{11}$;

$R^6$ is a radical selected from hydrogen, $(C_1-C_6)$ straight or branched alkyl, $(C_3-C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl,

furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl ($C_2$-$C_6$) alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl ($C_2$-$C_6$) alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$) alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl,($C_1$-$C_6$)-alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl, -NHC(=O)H and -NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^7$ is hydrogen, phenyl or ($C_1$-$C_6$)alkyl;

or $R^6$ and $R^7$, together with the carbon to which they are attached, form a saturated carbocyclic ring having from 3 to 7 carbon atoms wherein one of said carbon atoms may optionally be replaced by oxygen, nitrogen or sulfur;

$R^8$ and $R^9$ are each independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), nitrile, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkylamino, di-($C_1$-$C_6$)alkylamino, ($C_1$-$C_6$)alkoxy, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$)alkyl-O-C(=O)-($C_1$-$C_6$)alkyl,-($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-, and the radicals set forth in the definition of $R^6$;

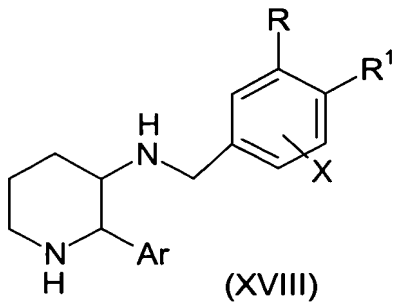
$R^{10}$ is $NHCR^{12}$, $NHCH_2R^{12}$, $NHSO_2R^{12}$ or one of the radicals set forth in any of the definitions of $R^6$, $R^8$ and $R^9$;

$R^{11}$ is oximino (=NOH) or one of the radicals set forth in any of the definitions of $R^6$, $R^8$ and $R^9$; and

$R^{12}$ is ($C_1$-$C_6$)alkyl, hydrogen, phenyl($C_1$-$C_6$)alkyl or phenyl optionally substituted with ($C_1$-$C_6$) alkyl; and

with the proviso that (a) when m is 0, $R^{11}$ is absent, (b) neither $R^8$, $R^9$, $R^{10}$ nor $R^{11}$ can form, together with the carbon to which it is attached, a ring with $R^7$, (c) when Q is a group of the formula VIII, $R^8$ and $R^9$ cannot be attached to the same carbon atom, and (d) when $R^8$ and $R^9$ are attached to the same carbon atom, then either each of $R^8$ and $R^9$ is independently selected from hydrogen, fluoro, ($C_1$-$C_6$) alkyl, hydroxy-($C_1$-$C_6$)alkyl and ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, or $R^8$ and $R^9$, together with the carbon to which they are attached, form a ($C_3$-$C_6$) saturated carbocyclic ring that forms a spiro compound with the nitrogen-containing ring to which they are attached.

11. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XVIII, as depicted and defined below, and their pharmaceutically acceptable salts:



(XVIII)

wherein R is halo ($C_1$-$C_8$)alkyl, halo ($C_2$-$C_8$)alkenyl, halo ($C_2$-$C_8$)alkynyl or halo ($C_1$-$C_8$)alkyl substituted by hydroxy or ($C_1$-$C_8$)alkoxy; $R^1$ is hydrogen, halo or ($C_1$-$C_6$)alkoxy; or

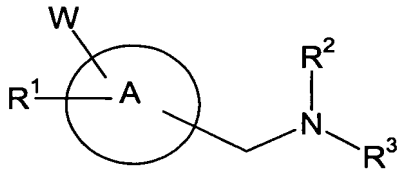
R and $R^1$, together with the two carbon atoms shared between the benzene ring and the R and $R^1$, complete a fused ($C_4$-$C_6$)cycloalkyl wherein one carbon atom is optionally replaced by oxygen and wherein one or two of the carbon atoms are optionally substituted by up to five subtituents selected from halo, ($C_1$-$C_6$)alkyl and halo ($C_1$-$C_6$)alkyl;

X is ($C_1$-$C_6$)alkoxy, halo ($C_1$-$C_6$)alkoxy, phenoxy or halo; and

Ar is phenyl optionally substituents by halo.

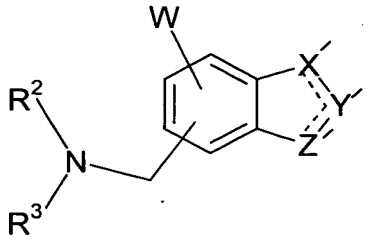
12. A method according to claim 11, wherein the NK-1 receptor antagonist is administered in an amount ranging from about 5 mg per day to about 200 mg per day.

13. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula IXa or IXb, as depicted and defined below, and their pharmaceutically acceptable salts:



IXa

or



IXb

wherein A is a ring system selected from phenyl, naphthyl, thienyl, quinolinyl and indolinyl, and wherein the side chain containing $NR^2R^3$ is attached to a carbon atom of ring system A;

W is hydrogen, ($C_1$-$C_6$)alkyl optionally substituted with from one to three fluorine atoms, -$S(O)_v$-($C_1$-$C_6$) alkyl wherein v is zero, one or two, halo, benzyloxy or ($C_1$-$C_6$)alkoxy optionally substituted with from one to three fluorine atoms;

$R^1$ is a 4, 5 or 6 membered heterocyclic ring containing from one to three heteroatoms selected from oxygen, nitrogen and sulfur (e.g., thiazolyl, azetidinyl, pyrrolyl, pyrazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, isothiazolyl, imidazolyl, isoxazolyl, oxazolyl, pyridyl, pyrimidinyl, pyrazolyl or thiophenyl), wherein said heterocyclic ring may contain from zero to three double bonds and may optionally be substituted with one or more substituents, preferably one or two substituents, independently selected from $(C_1\text{-}C_6)$ alkyl optionally substituted with from one to three fluorine atoms and $(C_1\text{-}C_6)$ alkoxy optionally substituted with from one to three fluorine atoms;

the dotted lines in formula Ib indicate that one of the X'-Y' and Y'-Z' bonds may optionally be a double bond;

X' is selected from =CH-, $-CH_2$-, -O-, -S-, -SO-, $-SO_2$-, $-N(R^4)$-, -NH-, =N-, $-CH[(C_1\text{-}C_6)\text{alkyl}]$-, $=C[(C_1\text{-}C_6)\text{alkyl}]$-, $-CH(C_6H_5)$- and $=C(C_6H_5)$-;

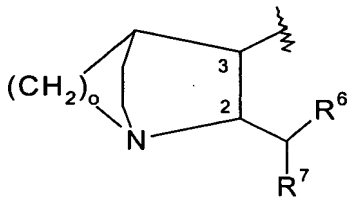
Y' is selected from C=O, $C=NR^4$, C=S, =CH-, $-CH_2$-, $=C[(C_1\text{-}C_6)\text{alkyl}]$-, $-CH[(C_1\text{-}C_6)\text{alkyl}]$-, $=C(C_6H_5)$-, $-CH(C_6H_5)$-, =N-, -NH-, $-N(R^4)$-, =C(halo)-, $=C(OR^4)$-, $=C(SR^4)$-, $=C(NR^4)$-, -O-, $=C(CF_3)$-, $=C(CH_2C_6H_5)$-, -S- and $SO_2$, wherein the phenyl moieties of said $=C(C_6H_5)$- and $-CH(C_6H_5)$- may optionally be substituted with from one to three substituents independently selected from trifluoromethyl and halo, and wherein the alkyl moieties of said $=[(C_1\text{-}C_6)\text{alkyl}]$- and $-CH[C_1\text{-}C_6)\text{alkyl}]$- may optionally be substituted with from one to three fluorine atoms;

Z' is selected from =CH-, $-CH_2$-, =N-, -NH-, -S-, $-N(R^4)$-, $=C(C_6H_5)$-, $-CH(C_6H_5)$-, $=C[(C_1\text{-}C_6)$ alkyl]- and $-CH[(C_1\text{-}C_6)\text{alkyl}]$-;

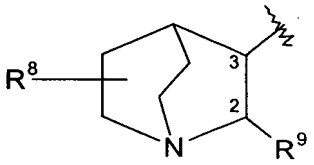
or X', Y' and Z', together with the two carbon atoms shared between the benzo ring and the X'Y'Z' ring, form a fused pyridine or pyrimidine ring;

$R^2$ is hydrogen or $-CO_2(C_1\text{-}C_{10})$alkyl;

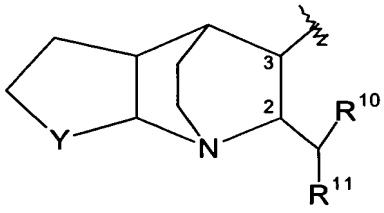
$R^3$ is selected from



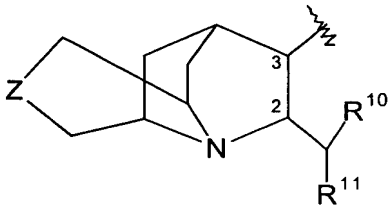
V



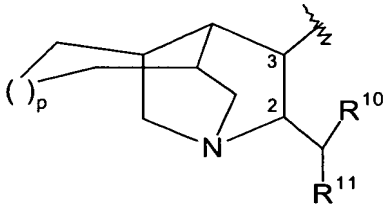
XI



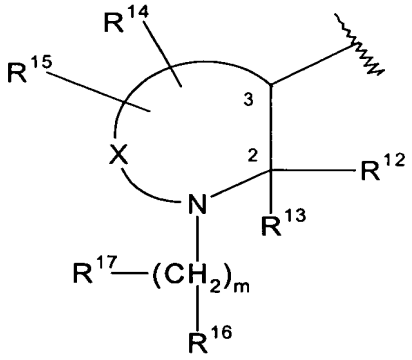
XII



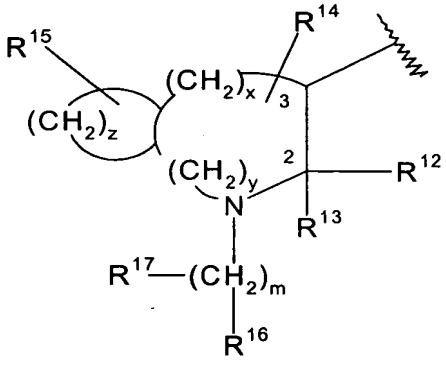
XIII



XIV

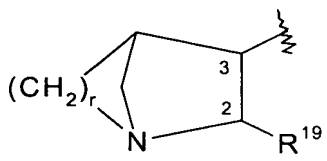


XV



XVI

and



XVII

wherein $R^6$ and $R^{10}$ are independently selected from furyl, thienyl, pyridyl, indolyl, biphenyl and

phenyl, wherein said phenyl may optionally be substituted with one or two substituents independently selected from halo, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, carboxy, benzyloxycarbonyl and ($C_1$-$C_3$) alkoxy-carbonyl;

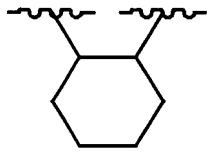
$R^4$ is ($C_1$-$C_6$) alkyl or phenyl;

$R^7$ is selected from ($C_3$-$C_4$) branched alkyl, ($C_5$-$C_6$) branched alkenyl, ($C_5$-$C_7$) cycloalkyl, and the radicals named in the definition of $R^6$;

$R^8$ is hydrogen or ($C_1$-$C_6$) alkyl;

$R^9$ and $R^{19}$ are independently selected from phenyl, biphenyl, naphthyl, pyridyl, benzhydryl, thienyl and furyl, and $R^9$ and $R^{19}$ may optionally be substituted with from one to three substituents independently selected from halo, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms and ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms;

Y is $(CH_2)_l$ wherein l is an integer from one to three, or Y is a group of the formula



(J)

;

Z is oxygen, sulfur, amino, ($C_1$-$C_3$)alkylamino or $(CH_2)_n$ wherein n is zero, one or two;

x is zero, one or two;

y is zero, one or two;

z is three, four or five;

o is two or three;

p is zero or one;

r is one, two or three;

the ring containing $(CH_2)_z$ may contain from zero to three double bonds, and one of the carbon atoms of $(CH_2)_z$ may optionally be replaced by oxygen, sulfur or nitrogen;

$R^{11}$ is thienyl, biphenyl or phenyl optionally substituted with one or two substituents independently selected from halo, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms and ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms;

X is $(CH_2)_q$ wherein q is an integer from 1 to 6, and wherein any one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^{14}$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^{15}$;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$, wherein both carbon atoms of such bond are bonded to each other and to another carbon atom

of the $(CH_2)_m$ chain, may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^{17}$;

$R^{12}$ is a radical selected from hydrogen, $(C_1-C_6)$ straight or branched alkyl, $(C_3-C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl-$(C_2-C_6)$ alkyl, benzhydryl and benzyl, wherein the point of attachment on $R^{12}$ is a carbon atom unless $R^{12}$ is hydrogen, and wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl-$(C_2-C_6)$ alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, $(C_1-C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1-C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkoxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$-alkylamino, $(C_1-C_6)$alkyl-O-C(=O)-, $(C_1-C_6)$alkyl-O-C(=O)-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkyl-C(=O)-O-, $(C_1-C_6)$alkyl-C(=O)-$(C_1-C_6)$alkyl-O-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-, di-$(C_1-C_6)$alkylamino, -C(=O)-NH-$(C_1-C_6)$alkyl, $(C_1-C_6)$-alkyl-C(=O)-NH-$(C_1-C_6)$alkyl, -NHC(=O)H and –NHC(=O)-$(C_1-C_6)$alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^{13}$ is hydrogen, phenyl or $(C_1-C_6)$alkyl;

or $R^{12}$ and $R^{13}$, together with the carbon to which they are attached, form a saturated carbocyclic ring having from 3 to 7 carbon atoms wherein one of said carbon atoms that is neither the point of attachment of the spiro ring nor adjacent to such point of attachment may optionally be replaced by oxygen, nitrogen or sulfur;

$R^{14}$ and $R^{15}$ are each independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), cyano, hydroxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkoxy-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkylamino, di-$(C_1-C_6)$alkylamino, $(C_1-C_6)$alkoxy, -C(=O)-OH, $(C_1-C_6)$alkyl-O-C(=O)-, $(C_1-C_6)$alkyl-O-C(=O)-$(C_1-C_6)$alkyl, $(C_1-C_6)$alkyl-C(=O)-O-, $(C_1-C_6)$alkyl-C-$(C_1-C_6)$alkyl-O-, $(C_1-C_6)$alkyl-C(=O)-, $(C_1-C_6)$alkyl-C(=O)-$(C_1-C_6)$alkyl-, and the radicals set forth in the definition of $R^{12}$;

$R^{16}$ is $NHC(=O)R^{18}$, $NHCH_2R^{18}$, $SO_2R^{18}$, $CO_2H$ or one of the radicals set forth in any of the definitions of $R^{12}$, $R^{14}$ and $R^{15}$;

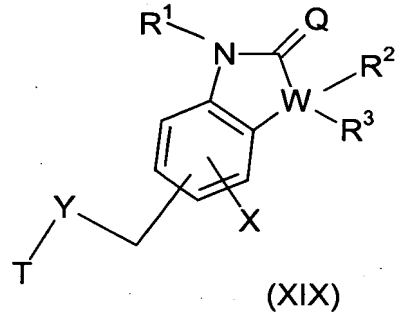
$R^{17}$ is oximino (=NOH) or one of the radicals set forth in any of the definitions of $R^{12}$, $R^{14}$ and $R^{15}$; and

$R^{18}$ is $(C_1-C_6)$alkyl, hydrogen, phenyl or phenyl $(C_1-C_6)$alkyl;

with the proviso that (a) when m is 0, one of $R^{16}$ and $R^{17}$ is absent and the other is hydrogen, (b) when $R^3$ is a group of the formula XVI, $R^{14}$ and $R^{15}$ cannot be attached to the same carbon atom, (c) when $R^{14}$ and $R^{15}$ are attached to the same carbon atom, then either each of $R^{14}$ and $R^{15}$ is independently selected from hydrogen, fluoro, $(C_1-C_6)$alkyl, hydroxy-$(C_1-C_6)$alkyl

and ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, or $R^{14}$ and $R^{15}$, together with the carbon to which they are attached, form a ($C_3$-$C_6$) saturated carbocyclic ring that forms a spiro compound with the nitrogen-containing ring to which they are attached; (d) $R^{12}$ and $R^{13}$ can not both be hydrogen, and (e) when $R^{14}$ or $R^{15}$ is attached to a carbon atom of X or $(CH_2)_y$ that is adjacent to the ring nitrogen, then $R^{14}$ or $R^{15}$, respectively, must be a substituent wherein the point of attachment is a carbon atom.

14. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XIX, as depicted and defined below, and their pharmaceutically acceptable salts:




(XIX)

wherein

W is methylene, ethylene, propylene, vinylene, $-CH_2-O-$,$-O-CH_2-$, $-CH_2-S-$ or $-S-CH_2-$;

$R^1$, $R^2$ and $R^3$ are independently hydrogen, ($C_1$-$C_3$) alkyl, ($C_1$-$C_3$) alkoxy or halo ($C_1$-$C_3$) alkyl, provided that when W is methylene, both $R^2$ and $R^3$ are not hydrogen;

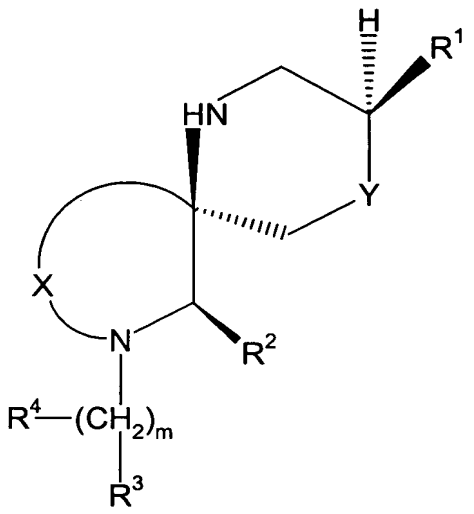
X is halo, ($C_1$-$C_3$) alkoxy, ($C_1$-$C_3$) alkoxy or ($C_1$-$C_3$) alkenyl;

Y is imino or oxy;

Q is oxygen or sulfur; and

T is (2S,3S)-2-diphenylmethylquinuclidin-3-yl,(2S,3S)-2-phenylpiperdin-3-yl or (2S,3S)-2-diphenylmethyl-1-azanorbornan-3-yl.

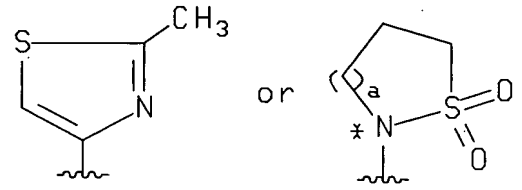
15. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XX, as depicted and defined below, and their pharmaceutically acceptable salts:



XX

wherein $R^1$ is phenyl optionally substituted with one or more substituents, preferably with from one to three substituents, independently selected from hydrogen, halo, nitro, $(C_1\text{-}C_{10})$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1\text{-}C_{10})$ alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, hydroxy, phenyl, cyano, amino, $(C_1\text{-}C_6)$-alkylamino, di-$(C_1\text{-}C_6)$alkylamino, -C(=O)-NH-$(C_1\text{-}C_6)$alkyl, $(C_1\text{-}C_6)$alkyl-C(=O)-NH-$(C_1\text{-}C_6)$ alkyl, hydroxy$(C_1\text{-}C_4)$alkyl,-NHC(=O)H, -NHC(=O)-$(C_1\text{-}C_6)$ alkyl, $(C_1\text{-}C_4)$alkoxy$(C_1\text{-}C_4)$alkyl, -$S(O)_v$-$(C_1\text{-}C_{10})$-alkyl wherein v is zero, one or two, -$S(O)_v$-aryl wherein v is zero, one or two, -O-aryl, -$SO_2NR^4R^5$ wherein each of $R^4$ and $R^5$ is, independently, $(C_1\text{-}C_6)$alkyl, or $R^4$ and $R^5$, together with the nitrogen to which they are attached, form a saturated ring containing one nitrogen and from 3 to 6 carbons, $(SO_2\text{-}(C_1\text{-}C_{10})$alkyl) $((C_1\text{-}C_{10})$alkyl)N wherein one or both of the alkyl moieties may optionally be substituted with from one to three fluorine atoms, -$N(SO_2\text{-}(C_1\text{-}C_{10})$alkyl$)_2$ and $(SO_2$-aryl) $((C_1\text{-}C_{10})$alkyl)N; and wherein the aryl moieties of said -$S(O)_v$-aryl, -O-aryl and $(SO_2$-aryl) $((C_1\text{-}C_{10})$alkyl)N are independently selected from phenyl and benzyl and may optionally be substituted with from one to three substituents independently selected from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_4)$alkoxy and halo;

or $R^1$ is phenyl substituted with a group having the formula



wherein a is 0, 1 or 2 and the asterisk represents a position meta to the point of attachment of $R^1$;

$R^2$ is selected from $(C_1\text{-}C_6)$ straight or branched alkyl, $(C_3\text{-}C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from

biphenyl, phenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl ($C_2$-$C_6$) alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl ($C_2$-$C_6$) alkyl and benzhydryl may optionally be substituted with one or more substituents, preferably with from one to three substituents, independently selected from halo, nitro, ($C_1$-$C_{10}$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_{10}$) alkoxy optionally substituted with from one to three fluorine atoms, amino, hydroxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkoxy-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O)-, ($C_1$-$C_6$) alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C-($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

m is an integer from 0 to 8, and any one of the carbon-carbon single bonds of $(CH_2)_m$, wherein both carbon atoms of such bond are bonded to each other and to another carbon atom in the $(CH_2)_m$ chain, may optionally be replaced by a carbon-carbon double bond or a carbon-carbon triple bond, and any one of the carbon atoms of said $(CH_2)_m$ may optionally be substituted with $R^4$;

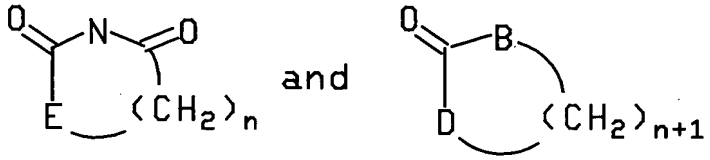
$R^3$ is selected from $NHC(=O)R^8$, $NHCH_2R^8$, $SO_2R^8$, $AR^5$, $CO_2H$ and the radicals set forth in the definitions of $R^2$, $R^6$ and $R^7$;

A is $CH_2$, nitrogen, oxygen, sulfur or carbonyl;

$R^8$ is ($C_1$-$C_6$)alkyl, hydrogen, phenyl or phenyl ($C_1$-$C_6$)alkyl;

$R^4$ is selected from oximino (=NOH) and the radicals set forth in the definitions of $R^2$, $R^6$ and $R^7$;

$R^5$ is a monocyclic or bicyclic heterocycle selected from the group consisting of pyrimidinyl, benzoxazolyl, 2,3-dihydro-3-oxobenzisosulfonazol-2-yl, morpholin-1-yl, thiomorpholin-1-yl, benzofuranyl, benzothienyl, indolyl, isoindolyl, isoquinolinyl, furyl, pyridyl, isothiazolyl, oxazolyl, triazolyl, tetrazolyl, quinolyl, thiazolyl, thienyl, and groups of the formulae




wherein B and D are selected from carbon, oxygen and nitrogen, and at least one of B and D is other than carbon; E is carbon or nitrogen; n is an integer from 1 to 5; any one of the carbon atoms of said $(CH_2)_n$ and $(CH_2)_{n+1}$ may be optionally substituted with ($C_1$-$C_6$)alkyl or ($C_2$-$C_6$) spiroalkyl; and either any one pair of the carbon atoms of said $(CH_2)_n$ and $(CH_2)_{n+1}$ may be bridged by a one or two carbon atom linkage, or any one pair of adjacent carbon atoms of said

$(CH_2)_n$ and $(CH_2)_{n+1}$ may form, together with from one to three carbon atoms that are not members of the carbonyl containing ring, a $(C_3$-$C_5)$ fused carbocyclic ring;

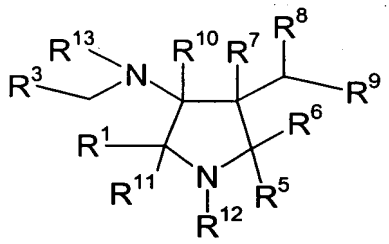
X is $(CH_2)_q$ wherein q is two or three and wherein one of the carbon-carbon single bonds in said $(CH_2)_q$ may optionally be replaced by a carbon-carbon double bond, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^6$, and wherein any one of the carbon atoms of said $(CH_2)_q$ may optionally be substituted with $R^7$;

$R^6$ and $R^7$ are independently selected from hydrogen, hydroxy, halo, amino, oxo (=O), cyano, hydroxy-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkoxy-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkylamino, di-$(C_1$-$C_6)$alkylamino, $(C_1$-$C_6)$alkoxy, -C(=O)-OH, $(C_1$-$C_6)$alkyl-O-C(=O)-, $(C_1$-$C_6)$alkyl-O-C(=O)-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)-O-, $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl-O-, $(C_1$-$C_6)$alkyl-C-, $(C_1$-$C_6)$alkyl-C(=O)-$(C_1$-$C_6)$alkyl- and the radicals set forth in the definition of $R^2$; and

Y is $(CH_2)_z$ wherein z is zero or one;

with the proviso that: (a) when A is -$(CH_2)$- or carbonyl, $R^5$ cannot be furyl, pyridyl, isothiazolyl, oxazolyl, triazolyl, tetrazolyl, quinolyl, thiazolyl or thienyl; (b) when m is zero, one of $R^3$ and $R^4$ is absent and the other is hydrogen; and (c) when $R^6$ or $R^7$ is attached to a carbon atom of X that is adjacent to the ring nitrogen, then $R^6$ or $R^7$, respectively, must be a substituent wherein the point of attachment is a carbon atom.

16. A method according to claim 9, wherein the NK-1 receptor antagonist or pharmaceutically acceptable salt thereof is selected from compounds of the formula XXI, as depicted and defined below, and their pharmaceutically acceptable salts:



XXI

wherein $R^1$ is selected from hydrogen, $(C_1$-$C_6)$ straight or branched alkyl, $(C_3$-$C_7)$ cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from phenyl, biphenyl, indanyl and naphthyl; heteroaryl selected from thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl $(C_2$-$C_6)$ alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl $(C_2$-$C_6)$ alkyl and benzhydryl may optionally be substituted with one or more substituents independently selected from halo, nitro, $(C_1$-$C_6)$ alkyl optionally substituted with from one to three fluorine atoms, $(C_1$-$C_6)$ alkoxy, amino, trihaloalkoxy (e.g., trifluoromethoxy), $(C_1$-$C_6)$alkylamino, $(C_1$-$C_6)$alkyl-O-C(=O)-, $(C_1$-$C_6)$alkyl-O-C(=O)- $(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)-O-, $(C_1$-$C_6)$alkyl-C-, $(C_1$-$C_6)$alkyl-O-, $(C_1$-$C_6)$alkyl-C(=O)-, $(C_1$-$C_6)$alkyl-C(=O)-, $(C_1$-$C_6)$alkyl-, di-$(C_1$-$C_6)$alkylamino, -C(=O)NH-$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyl-C(=O)-NH-$(C_1$-$C_6)$alkyl-,

-NHC(=O)H and –NHC(=O)-($C_1$-$C_6$) alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

$R^3$ is aryl selected from phenyl and naphthyl; heteroaryl selected from indanyl, thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; and cycloalkyl having 3 to 7 carbon atoms wherein one of said carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; wherein each of said aryl and heteroaryl groups may optionally be substituted with one or more substituents, and said ($C_3$-$C_7$) cycloalkyl may optionally be substituted with one or two substituents, each of said substituents being independently selected from halo, nitro, ($C_1$-$C_6$) alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_6$) alkoxy, amino, phenyl, trihaloalkoxy (e.g., trifluoromethoxy), ($C_1$-$C_6$) alkylamino, -C(=O)-NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)- -C-O-($C_1$-$C_6$)alkyl, -C(=O)H, -$CH_2OR^{13}$, NH($C_1$-$C_6$)alkyl-, -NHC(=O)H, -$NR^{24}$C-($C_1$-$C_6$)alkyl and –NHC(=O)-($C_1$-$C_6$)alkyl;

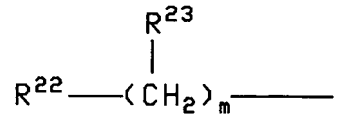
one of $R^5$ and $R^6$ is hydrogen and the other is selected from hydroxymethyl, hydrogen, ($C_1$-$C_3$)alkyl, ($C_1$-$C_8$)acyloxy($C_1$-$C_3$)alkyl, ($C_1$-$C_8$)alkoxymethyl and benzyloxymethyl;

$R^7$ and $R^8$ are independently selected from hydrogen, ($C_1$-$C_3$)alkyl and phenyl;

$R^9$ is selected from methyl, hydroxymethyl, HC(=O)-, $R^{14}R^{15}NCO_2CH_2$-, $R^{16}OCO_2CH_2$-, ($C_1$-$C_4$)alkyl-$CO_2CH_2$-, -$CONR^{17}R^{18}$, $R^{17}R^{18}NCO_2$-, $R^{19}OCO_2$-, $C_6H_5CH_2CO_2CH_2$-, $C_6H_5CO_2CH_2$-, ($C_1$-$C_4$)alkyl-CH(OH)-, $C_6H_5CH(OH)$-, $C_6H_5CH_2CH(OH)$-, $CH_2$halo, $R^{20}SO_2OCH_2$, -$CO_2R^{16}$ and $R^{21}CO_2$-;

$R^{10}$ and $R^{11}$ are independently selected from hydrogen, ($C_1$-$C_3$) alkyl and phenyl;

$R^{12}$ is hydrogen, benzyl or a group of the formula



wherein m is an integer from zero to twelve, and any one of the carbon-carbon single bonds of $(CH_2)_m$ may optionally be replaced by a carbon-carbon double or triple bond, and any one of the carbon atoms of $(CH_2)_m$ may optionally be substituted with $R^{23}$ (as indicated by the slanted line to $R^{23}$ which intersects the horizontal line to $(CH_2)_m$ in the above figure);

$R^{13}$, $R^{14}$, $R^{15}$, $R^{16}$, $R^{17}$, $R^{18}$, $R^{19}$, $R^{20}$, $R^{21}$ and $R^{24}$ are independently selected from hydrogen, ($C_1$-$C_3$)alkyl and phenyl;

$R^{22}$ and $R^{23}$ are independently selected from hydrogen, hydroxy, halo, amino, carboxy, carboxy($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkylamino, di-($C_1$-$C_6$)alkylamino, ($C_1$-$C_6$)alkoxy, ($C_1$-$C_6$)-alkyl-O-C(=O)-, ($C_1$-$C_6$)alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)- ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C-, ($C_1$-$C_6$)-alkyl-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$) straight or branched alkyl, ($C_3$-$C_7$) cycloalkyl wherein one of the carbon atoms may optionally be replaced by nitrogen, oxygen or sulfur; aryl selected from phenyl and naphthyl; heteroaryl selected from indanyl, thienyl, furyl, pyridyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, triazolyl, tetrazolyl and quinolyl; phenyl-($C_2$-

$C_6$)alkyl, benzhydryl and benzyl, wherein each of said aryl and heteroaryl groups and the phenyl moieties of said benzyl, phenyl-($C_2$-$C_6$)alkyl and benzhydryl may optionally be substituted with one or two substituents independently selected from halo, nitro, ($C_1$-$C_6$)alkyl optionally substituted with from one to three fluorine atoms, ($C_1$-$C_6$)alkoxy optionally substituted with from one to three fluorine atoms, trifluoromethyl, amino, ($C_1$-$C_6$)-alkylamino, ($C_1$-$C_6$)alkyl-O-C(=O), ($C_1$-$C_6$)alkyl-O-C(=O)-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)alkyl-C(=O)-O-, ($C_1$-$C_6$)alkyl-C(=O)-($C_1$-$C_6$)alkyl-O-, ($C_1$-$C_6$)alkyl-C(=O)-, ($C_1$-$C_6$)alkyl-C-($C_1$-$C_6$)alkyl-, di-($C_1$-$C_6$)alkylamino, -C(=O)NH-($C_1$-$C_6$)alkyl, ($C_1$-$C_6$)-alkyl-C(=O)-NH-($C_1$-$C_6$)alkyl, -NHC(=O)H and –NHC(=O)-($C_1$-$C_6$)alkyl; and wherein one of the phenyl moieties of said benzhydryl may optionally be replaced by naphthyl, thienyl, furyl or pyridyl;

or $R^9$, together with the carbon to which it is attached, the nitrogen of the pyrrolidine ring, the carbon to which $R^7$ is attached and the carbon to which $R^5$ and $R^6$ are attached form a second pyrrolidine ring; with the proviso that when $R^9$, together with the carbon to which it is attached, the nitrogen of the pyrrolidine ring, the carbon to which $R^7$ is attached and the carbon to which $R^5$ and $R^6$ are attached, form a second pyrrolidine ring (thus forming a bicyclic structure containing a bridgehead nitrogen), either $R^{12}$ is absent or $R^{12}$ is present and the nitrogen of the second pyrrolidine ring is positively charged.